

## CLAIMS:

1. An electronic product comprising a body provided with a three-dimensional shape that is derived from the product and incorporates structurally at least part of the product shape, which body comprises an electrically insulating material and comprises a pattern of electrical conductors, which pattern includes contact pads for external contacting  
5 which conductors are mechanically anchored in the body, a plurality of electric elements being encapsulated in the body and being electrically connected to the pattern of electrical conductors.
2. An electronic product as claimed in claim 1, characterized in that means are  
10 present for mechanical attachment of a component or carrier to the body.
3. A body as claimed in claim 2, wherein the pattern of conductors includes contact pads for contacting a component that can be assembled to the surface of the body, and wherein the shape of the body is fitted for assembly of the component.  
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4. An electronic product as claimed in claim 1, characterized in that a sensing or transmitting first element is provided at the surface of the body for radiation of a first kind and an auxiliary second element for processing or providing of the radiation, the first and second element having a predetermined spatial interrelationship to each other to allow their  
20 functioning, which is defined in the body, the first element being electrically connected to the pattern of electrical conductors in the body.
5. An electronic product as claimed in claim 1 or 4, wherein further a separate signal processing unit is provided in or at the surface of the body.  
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6. A body suitable for use as a product part in a desired product and provided with a three-dimensional shape that is derived from the product and incorporates structurally at least part of the product shape, which body comprises an electrically insulating material and comprises a pattern of electrical conductors, which pattern includes contact pads for

external contacting which conductors are mechanically anchored in the body, a plurality of electric elements being encapsulated in the body and being electrically connected to the pattern of electrical conductors, wherein the conductors are present at a surface only partially.

5 7. A body as claimed in claim 6, wherein the contact pads for external contacting are exposed at a surface of the body.

8. A body as claimed in claim 6, wherein means are present for mechanical attachment of a device, component or carrier to the body.

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9. A method of manufacturing a body suitable for use as a product part in a desired product and provided with a threedimensional shape that is derived from the product and incorporates structurally at least part of the product shape, comprising the steps of:

- 15 - providing a foil having a releasable layer and a pattern of conductor tracks, the pattern comprising an first area that is to be hidden in the body;
- removing the releasable layer from the first area to the extent that any conductor tracks;
- attaching electrical elements to the conductor tracks;
- providing the body of electrically insulating material by a molding technique,
- 20 therewith encapsulating the electrical elements and mechanically anchoring the conductor tracks in the body; and
- removing the releasable layer to the extent that it is present at a surface of the body.

25 10. A method as claimed in claim 9, wherein the releasable layer is removed from the first area by cutting the releasable layer in a pattern which is substantially corresponding to the pattern of the conductor tracks in the first area.

11. An electrically insulating body provided with a conductor pattern, which body

30 acts as a carrier of the conductor pattern and as a carrier of elements embedded in the body and/or components assembled to the body, which body includes a rigid portion and a flexible portion, in which rigid portion the body comprises a non-elastic electrically insulating material and in which flexible portion the body comprises an elastic, electrically insulating material.

12. An electrically insulating body as claimed in claim 11, wherein the flexible portion comprises conductors according to a desired pattern.

5 13. An electrically insulating body as claimed in claim 11 or 12, wherein the flexible portion is provided between a first and a second rigid portion.

14. An electrically insulating body as claimed in claim 11, wherein the pattern of conductors is at least partially present at a surface of the body.

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15. An electronic device comprising the electrically insulating body according to any of the claims 11-14 and an electric element that is assembled to the body or embedded in the body.

15 16. A method of manufacturing an electrically insulating body provided with a pattern of conductors, the body having a flexible portion and a rigid portion, comprising the steps of:

- providing a foil having a releasable layer and a pattern of conductor tracks;
- placing the foil in a first mould such that the pattern of conductors faces

20 away from a surface of the mould, and providing a first electrically insulating material in the mould, the first material becoming rigid after finalization of the molding operation, therewith generating the rigid portion of the body

- placing the thus partially moulded foil in a second mould and providing a second electrically insulating material in the mould, the second material being elastic after

25 finalization of the molding operation, therewith generating the flexible portion of the body, and

- removing the releasable layer to the extent that it is present at a surface of the body.